

US-PAT-NO: 6563554  
DOCUMENT-IDENTIFIER: US 6563554 B2  
TITLE: Liquid crystal display

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Detailed Description Text - DETX (350):

In a second style, the reflection display is mainly used for the display, in which the power-consuming back light is turned ON/OFF frequently depending on the circumstances to save the power consumption, and therefore, the back light is turned ON only when the ambient light is so weak that the display content can not be seen by the reflection display alone (this style is referred to as the reflection-main transflective type, hereinafter).

Detailed Description Text - DETX (467):

Unlike the conventional liquid crystal display of the transmission type, the back light does not have to be kept turned ON in the liquid crystal display of the present embodiment. Consequently, the present liquid crystal display can save the power consumption while causing no wash-out in the reflection display section 9; moreover, it can show the transmission display using the back light, as needed.

Detailed Description Text - DETX (481):

Unlike the conventional liquid crystal display of the transmission type, the back light does not have to be kept turned ON in the liquid crystal display of the present embodiment. Consequently, the present liquid crystal display can

US-PAT-NO: 6584571  
DOCUMENT-IDENTIFIER: US 6584571 B1  
TITLE: System and method of computer  
operating mode clock control for power consumption  
reduction

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Brief Summary Text - BSTX (9):

Prior art attempts at conserving power have employed screen blanking which reduces the power to the display screen when the screen has not been used for some period of time. Typically, a timeout circuit senses changes in screen information and, if no change has occurred for a predetermined timeout period, the backlight to the screen is turned off for power reduction. While screen blanking is effective in reducing power for the display screen, no reduction results in power to the driver circuitry for the display, to the CPU, or to other parts of the computer. Furthermore, when the screen is blanked, the computer cannot be used until reset.

save the power consumption while causing no wash-out in the reflection display section 9; moreover, it can show the transmission display using the back light, as needed.

Detailed Description Text - DETX (488):

A second purpose is to save the power consumption. There are cases where the visibility is not affected much whether the back light is turned ON or OFF. An example of such a case would be when a liquid crystal display of the transreflective type is used where the ambient light lighting the liquid crystal display has sufficiently high illuminance, so that the luminance of the display surface is maintained mainly by the reflection display section. In this case, the luminance of the display surface may not be affected even if the luminance of the transmission display is high, and in such a case, it is preferable to turn OFF the back light to save the power consumption.

Detailed Description Text - DETX (494):

Further, in controlling the luminance of the back light, if the back light is only turned ON when the user manipulates the apparatus including the liquid crystal display, or for a fixed period thereafter, the overall power consumption of the apparatus can be saved, and the user can be provided with display he feels to be satisfactory. The luminance of the back light may also be controlled by any other applicable signal besides the illuminance of the light incident on the display surface.

Detailed Description Text - DETX (502):

In the liquid crystal display incorporating the input device assembled in the above manner, the back light 13 can be turned OFF when the user does not

observe the display and turned ON upon input of information into the touch panel 71 by changing the luminance of the back light 13 in response to signals from the touch panel. Consequently, the liquid crystal display of the present embodiment can show satisfactory display while saving the power consumption.

In addition, according to the present embodiment, visibility can be improved by providing the polarization plate 14, touch panel 71, and liquid crystal cell in this order, because the polarization plate 14 also absorbs unwanted reflected light from the touch panel 71, thus reducing such unwanted reflected light.

US-PAT-NO: 6380853

DOCUMENT-IDENTIFIER: US 6380853 B1

TITLE: Customer-sensitive dispenser using  
proximity sensing devices

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Detailed Description Text - DETX (14):

The controller 20 may be adapted to control display back-lighting 54 through back-lighting control electronics 56. Depending on the application, the back-lighting may be decreased from a nominal operating level or turned completely off between fueling operations, to reduce heat and conserve energy. Preferably, once a customer is detected within a relative proximity to the fuel dispenser, the back-lighting is increased or turned on to the normal operating level in order to make the display content readily visible to the customer as well as draw the customer's attention to the display.

US-PAT-NO: 6329968  
DOCUMENT-IDENTIFIER: US 6329968 B1  
TITLE: Display device

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Brief Summary Text - BSTX (3):

Such reflective display devices are used, for example, in portable equipment such as laptop computers, mobile telephones, personal organizers etc. With a view to saving energy, it is desirable that the light source can be turned off when there is sufficient ambient light.